

Surface Water Sampling
Upper Crossroads Area
Harford County Maryland
10/27/04

On August 19, 2004, Environmental Specialists from the Maryland Department of the Environment's (MDE) Drinking Water Monitoring Section conducted monitoring efforts on three unnamed tributaries in the Upper Crossroads, area of Fallston, Harford County. This action was performed at the request of the MDE's Oil Control Program. Monitoring efforts included the collection of stream samples to be analyzed for volatile organic compounds. These samples were analyzed at the State Laboratories located at the Department of Health and Mental Hygiene. In addition, water quality parameters and stream flow measurements were collected at each of the nine sampling stations.

Conclusions

Results from the nine stream samples collected were all negative for volatile organic compounds including MtBE. The unnamed tributary of the Little Gunpowders Falls in the Crystle Spring Farm area ADC map 15E9 may warrant sampling as the groundwater investigation moves forward.

Attachments

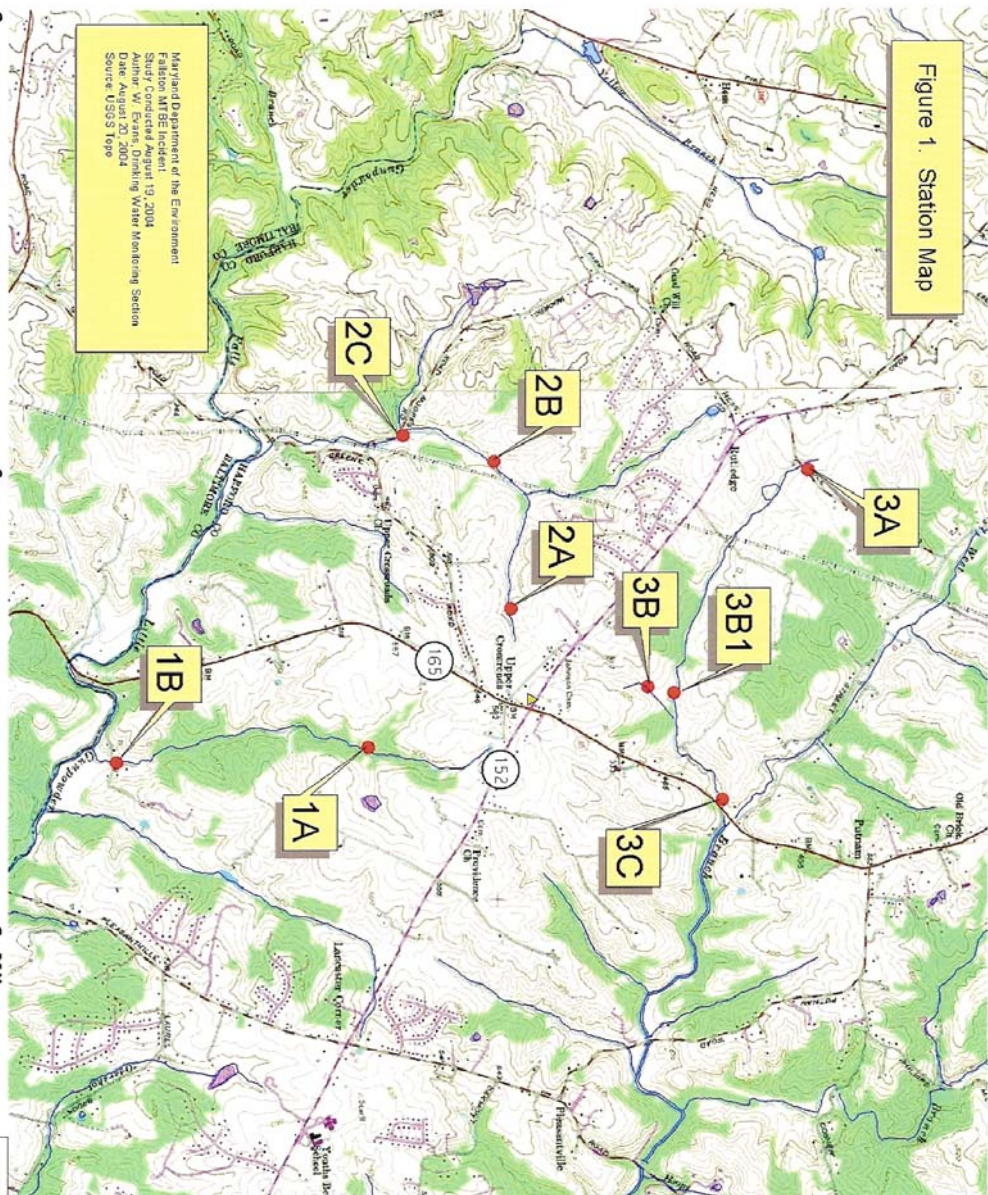
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Figure 1. Station Map

Maryland Department of the Environment
 Station MTB6 Incident
 Study Conducted August 19, 2004
 Author: W. Evans, Drinking Water Monitoring Section
 Date August 20, 2004
 Source: USGS topo

Figure 1. Station Map

Maryland Department of the Environment
 Station MTBE Incident
 Study Conducted August 19, 2004
 Author: W. Evans, Drinking Water Monitoring Section
 Date August 20, 2004
 Source: USGS tope



Project: Fallston MTBE Investigation

Date: 8/19/2004

Station	Collection Time	Temperature (°C)	Specific Conductance mS/cm	Dissolved Oxygen (mg/L)	pH	Turbidity (NTU)	Total Discharge (CFS)
3A	1000	17.28	0.185	6.24	5.79	21.5	0.13
3B	1030	19.21	0.266	7.8	6.51	3.3	0.03
3B1	1055	19.77	0.195	7.3	6.46	5.0	0.64
3C	1124	19.2	0.218	7.98	6.72	4.3	1.13
1A	1230	22.65	0.154	7.31	6.86	21.7	0.46
1B	1325	20.75	0.152	7.87	6.79	3.2	1.03
2A	1445	21.02	0.145	7.24	6.2	12.2	0.002
2B	1535	22.52	0.188	7.58	6.92	12.6	0.75
2C	1615	21.07	0.170	7.91	6.78	1.6	1.37